

Global 3D Automated Optical Inspection Equipment in PCB Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global 3D Automated Optical Inspection Equipment in PCB market size was valued at USD 337 million in 2023 and is forecast to a readjusted size of USD 1379.2 million by 2030 with a CAGR of 22.3% during review period.

3D Automated Optical Inspection (AOI) equipment in the context of Printed Circuit Boards (PCBs) refers to a technology used to inspect and assess the quality of PCBs during the manufacturing process. AOI is a crucial step in ensuring that PCBs are free from defects, errors, and manufacturing inconsistencies that could lead to malfunctioning or unreliable electronic devices.

Traditional 2D AOI systems inspect PCBs by capturing 2D images of the board's surface and comparing them to reference images of defect-free PCBs. However, 3D AOI takes the inspection process to a higher level of accuracy and precision by incorporating depth information in addition to the visual information.

According to our Semiconductor Research Center, the global total output value of PCB was about US\$ 81 billion in 2022. With strong drivers from new technology, such as AI, 5G and new energy vehicles, it is estimated that the PCB industry will continue to grow steadily in the next six years. Global PCB manufacturers are mainly located in China mainland, China Taiwan, Japan, South Korea, Europe and the United States. Among them, Chinese local PCB companies hold the biggest share.

The Global Info Research report includes an overview of the development of the 3D Automated Optical Inspection Equipment in PCB industry chain, the market status of

Automotive Electronics (Inline 3D AOI, Offline 3D AOI), Consumer Electronics (Inline 3D AOI, Offline 3D AOI), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of 3D Automated Optical Inspection Equipment in PCB.

Regionally, the report analyzes the 3D Automated Optical Inspection Equipment in PCB markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global 3D Automated Optical Inspection Equipment in PCB market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the 3D Automated Optical Inspection Equipment in PCB market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the 3D Automated Optical Inspection Equipment in PCB industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Inline 3D AOI, Offline 3D AOI).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the 3D Automated Optical Inspection Equipment in PCB market.

Regional Analysis: The report involves examining the 3D Automated Optical Inspection Equipment in PCB market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the 3D Automated Optical Inspection Equipment in PCB

market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to 3D Automated Optical Inspection Equipment in PCB:

Company Analysis: Report covers individual 3D Automated Optical Inspection Equipment in PCB manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards 3D Automated Optical Inspection Equipment in PCB. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive Electronics, Consumer Electronics).

Technology Analysis: Report covers specific technologies relevant to 3D Automated Optical Inspection Equipment in PCB. It assesses the current state, advancements, and potential future developments in 3D Automated Optical Inspection Equipment in PCB areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the 3D Automated Optical Inspection Equipment in PCB market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

3D Automated Optical Inspection Equipment in PCB market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Inline 3D AOI

Offline 3D AOI

Market segment by Application

Automotive Electronics

Consumer Electronics

Industrials

Others

Major players covered

Koh Young Technology

Mirtec

ViTrox Corporation Berhad

Saki Corporation

Cyberoptics Corporation

Omron Corporation

Viscom

Test Research

Parmi Corp

VI Technology (Mycronic)

G?PEL electronic GmbH

Machine Vision Products (MVP)

Mek Marantz Electronics

Pemtron Corp.

Nordson YESTECH

JUTZE Intelligence Technology

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 3D Automated Optical Inspection Equipment in PCB product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Automated Optical Inspection Equipment in PCB, with price, sales, revenue and global market share of 3D Automated Optical Inspection Equipment in PCB from 2019 to 2024.

Chapter 3, the 3D Automated Optical Inspection Equipment in PCB competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Automated Optical Inspection Equipment in PCB breakdown data are

shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and 3D Automated Optical Inspection Equipment in PCB market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 3D Automated Optical Inspection Equipment in PCB.

Chapter 14 and 15, to describe 3D Automated Optical Inspection Equipment in PCB sales channel, distributors, customers, research findings and conclusion.

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